

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830556

Luminaire Tested: **OHBL-48SE-MFL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-MFL-UNV-L935-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

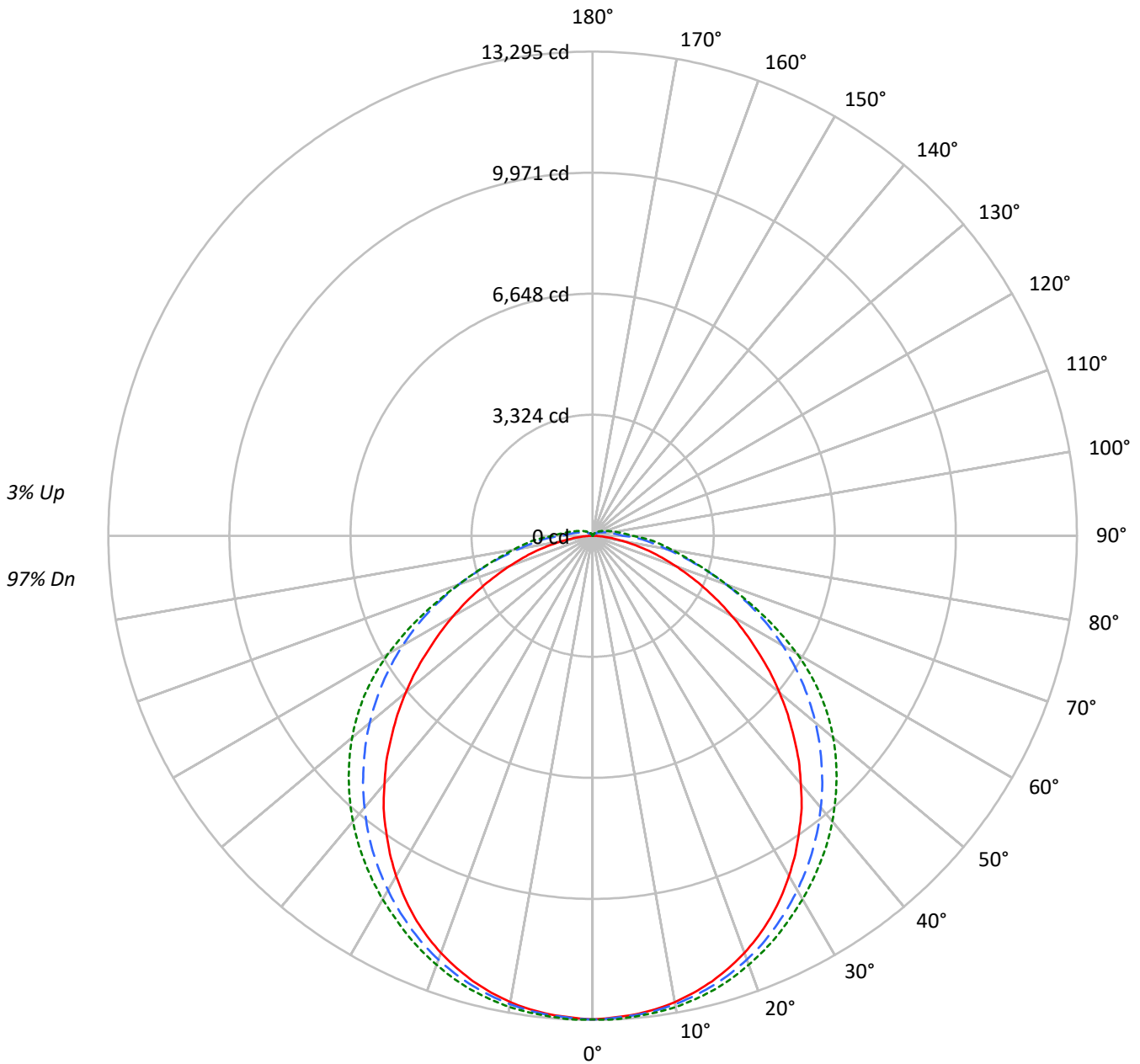
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39752.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22686	22686	22686
5°	22541	22461	22526
10°	22383	22253	22393
15°	22133	22006	22224
20°	21801	21706	21983
25°	21358	21334	21739
30°	20744	20932	21493
35°	20001	20504	21277
40°	19109	20011	21063
45°	18057	19475	20793
50°	16905	18932	20467
55°	15490	18269	19930
60°	14041	17490	18882
65°	12459	16496	17178
70°	10744	15232	15332
75°	9008	13770	14059
80°	6829	12685	13852
85°	4321	13066	15278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1258.6	3.2
10°-20°	3610.7	9.1
20°-30°	5460.5	13.7
30°-40°	6555.4	16.5
40°-50°	6770.7	17.0
50°-60°	6091.5	15.3
60°-70°	4588.6	11.5
70°-80°	2770.8	7.0
80°-90°	1355.1	3.4
90°-100°	570.4	1.4
100°-110°	325.6	0.8
110°-120°	191.1	0.5
120°-130°	108.1	0.3
130°-140°	56.9	0.1
140°-150°	27.7	0.1
150°-160°	10.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10329.8	26.0
0°-40°	16885.2	42.5
0°-60°	29747.4	74.8
0°-90°	38461.9	96.8
90°-120°	1087.2	2.7
90°-150°	1279.9	3.2
90°-180°	1290.0	3.2
0°-180°	39752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13282	13282	13282	13282	13282	
5°	13198	13234	13217	13269	13253	###
15°	12665	12726	12785	12892	12905	3571
25°	11566	11693	11859	12044	12073	5320
35°	9889	10120	10536	10854	10919	6182
45°	7805	8198	8884	9369	9469	6026
55°	5530	6102	7028	7558	7649	4958
65°	3374	4063	4974	5221	5162	3352
75°	1590	2282	2880	2955	2926	1696
85°	332	874	1443	1642	1671	383
90°	0	341	826	1040	1082	21
95°	16	231	618	787	816	14
105°	23	133	358	468	488	23
115°	26	75	221	296	309	27
125°	26	36	133	192	202	23
135°	23	29	68	117	130	18
145°	32	29	32	58	68	19
155°	32	36	32	29	32	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830556

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13282.4	13282.4	13282.4	<i>13282.4</i>	13282.4
2.5°	<i>13243.4</i>	<i>13275.9</i>	<i>13256.4</i>	<i>13298.7</i>	<i>13295.4</i>
5°	13197.9	13233.6	13217.4	<i>13269.4</i>	13253.2
7.5°	13119.9	13158.9	13155.6	<i>13214.1</i>	13207.6
10°	13006.1	13048.4	13061.4	<i>13139.4</i>	13139.4
12.5°	12850.1	12905.3	12937.8	<i>13032.1</i>	13035.4
15°	12664.8	12726.5	12785.0	<i>12892.3</i>	12905.3
17.5°	12440.5	12518.5	12599.8	<i>12723.3</i>	12739.5
20°	12186.9	12274.7	12385.2	<i>12515.2</i>	12534.7
22.5°	11894.4	11998.4	12141.4	<i>12294.2</i>	12316.9
25°	11566.0	11692.8	11858.6	<i>12043.9</i>	12073.1
27.5°	11192.2	11338.5	11562.8	<i>11770.8</i>	11796.8
30°	10785.9	10958.1	11237.7	<i>11484.8</i>	11527.0
32.5°	10356.8	10555.1	10899.6	<i>11175.9</i>	11234.5
35°	9888.7	10119.5	10535.6	<i>10854.1</i>	10919.1
37.5°	9427.1	9680.6	10152.0	<i>10516.1</i>	10594.1
40°	8887.4	9202.8	9742.4	<i>10145.5</i>	10239.7
42.5°	8380.3	8721.7	9332.8	<i>9771.6</i>	9862.7
45°	7805.0	8198.3	8884.2	<i>9368.6</i>	9469.3
47.5°	7265.3	7691.2	8451.9	<i>8952.5</i>	9056.5
50°	6696.5	7164.6	7990.2	<i>8513.6</i>	8620.9
52.5°	6127.6	6631.5	7512.4	<i>8055.3</i>	8156.0
55°	5529.5	6101.6	7028.0	<i>7557.9</i>	7648.9
57.5°	4973.6	5578.2	6530.7	<i>7034.5</i>	7089.8
60°	4424.2	5051.6	6023.6	<i>6465.7</i>	6485.2
62.5°	3887.9	4547.7	5503.5	<i>5854.5</i>	5828.5
65°	3374.2	4063.4	4973.6	<i>5220.6</i>	5162.1
67.5°	2880.1	3592.0	4430.7	<i>4590.0</i>	4512.0
70°	2412.0	3133.7	3904.1	<i>3985.4</i>	3913.9
72.5°	1999.2	2698.1	3371.0	<i>3439.3</i>	3387.2
75°	1589.6	2282.0	2880.1	<i>2954.9</i>	2925.6
77.5°	1206.0	1878.9	2428.3	<i>2525.8</i>	2532.3
80°	867.9	1511.6	2034.9	<i>2187.7</i>	2207.2
82.5°	572.1	1173.5	1706.6	<i>1901.7</i>	1930.9
85°	331.6	874.4	1443.3	<i>1641.6</i>	1670.9
87.5°	143.0	630.6	1160.5	<i>1339.3</i>	1375.1
90°	0.0	341.3	825.7	<i>1040.2</i>	1082.5
92.5°	9.8	282.8	708.7	<i>903.7</i>	939.5
95°	16.3	230.8	617.6	<i>786.7</i>	815.9
97.5°	19.5	195.0	536.4	<i>685.9</i>	715.2
100°	19.5	169.0	464.9	<i>601.4</i>	627.4
102.5°	19.5	149.5	406.3	<i>526.6</i>	549.4
105°	22.8	133.3	357.6	<i>468.1</i>	487.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26.0	87.8	247.1	331.6	344.6
115°	26.0	74.8	221.0	295.8	308.8
117.5°	29.3	65.0	195.0	266.6	276.3
120°	29.3	55.3	172.3	237.3	250.3
122.5°	29.3	45.5	152.8	214.5	224.3
125°	26.0	35.8	133.3	191.8	201.5
127.5°	22.8	29.3	113.8	172.3	182.0
130°	22.8	26.0	97.5	152.8	162.5
132.5°	22.8	29.3	81.3	133.3	146.3
135°	22.8	29.3	68.3	117.0	130.0
137.5°	22.8	29.3	55.3	100.8	113.8
140°	26.0	29.3	45.5	84.5	97.5
142.5°	29.3	29.3	35.8	71.5	81.3
145°	32.5	29.3	32.5	58.5	68.3
147.5°	32.5	32.5	32.5	45.5	55.3
150°	32.5	35.8	32.5	35.8	45.5
152.5°	32.5	35.8	32.5	29.3	35.8
155°	32.5	35.8	32.5	29.3	32.5
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	22.8	117.0	315.3	416.1	432.3
110°	22.8	104.0	279.6	370.6	386.8



(END OF REPORT)